

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. I-1-58.7US	SERIAL NO. Not Yet Known
	APPLICANT Paneth et al.	
	FILING DATE Not Yet Known	GROUP Not Yet Known <i>2661</i>

J1033 U.S. PTO
 09/923171
 08/06/01

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
1	<i>KW</i>	R E 3 2 5 8 0	1/88	Atal et al.	381	40	
2		2 0 7 0 4 1 8	2/37	Beverage	250	9	
3		2 8 0 8 5 0 4	10/57	Neumann et al.	250	13	
4		2 9 4 1 0 3 8	6/60	Seki	179	15	
5		3 1 5 0 3 7 4	9/64	Sunstein et al.	343	204	
6		3 2 3 0 4 5 8	1/66	Strangeland	325	410	
7		3 3 3 2 0 1 6	7/67	Pokorný	325	18	
8		3 3 4 1 7 7 6	9/67	Doelz et al.	325	30	
9		3 3 4 8 1 5 0	10/67	Atal et al.	325	86	
10		3 4 7 1 6 4 6	10/69	Magunski et al.	179	15	
11		3 4 9 7 6 2 7	2/70	Blasbalg et al.	179	15	
12		3 4 9 9 9 9 5	3/70	Clark	179	15	
13		3 5 0 5 4 7 9	4/70	Hodge	179	15	
14		3 5 2 9 2 4 3	9/70	Reindl	325	55	
15		3 5 3 2 9 8 5	10/70	Glomb et al.	325	4	
16		3 5 3 4 2 6 4	10/70	Blasbalg	325	15	
17		3 5 4 6 6 8 4	12/70	Maxwell et al.	340	172.5	
18		3 5 6 4 1 4 7	2/71	Puente	179	15	
19		3 5 7 3 3 7 9	4/71	Schmitz	179	15	
20	<i>W</i>	3 5 7 6 3 9 8	4/71	Dejean et al.	179	18	

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21	<i>Kew</i>	3	6	0	1	5	4	5		8/71	Saburi	179	15	
22		3	6	2	6	2	9	5		12/71	Saburi	325	4	
23		3	6	3	1	5	2	0		12/71	Atal	179	18A	
24		3	6	3	4	6	2	7		1/72	Valentini	179	15	
25		3	6	3	9	7	3	9		2/72	Golden et al.	235	152	
26		3	6	4	1	2	7	4		2/72	Sasaki et al.	179	15	
27		3	6	4	3	0	3	1		2/72	Sasaki et al.	179	15	
28		3	6	4	4	6	7	8		2/72	Schmidt	179	15	
29		3	6	5	4	3	9	5		4/72	Schmidt	179	15	
30		3	6	8	3	1	1	6		8/72	Dill	179	15	
31		3	7	1	0	0	2	7		1/73	Herter et al.	179	15	
32		3	7	4	0	4	7	6		6/73	Atal	179	1	
33		3	7	4	2	4	9	8		6/73	Dunn	343	7.5	
34		3	7	5	0	0	2	4		7/73	Dunn et al.	325	38	
35		3	8	0	6	8	7	9		4/74	Schmidt et al.	340	172.5	
36		3	8	1	2	4	3	0		5/74	Schmidt et al.	325	4	
37		3	8	1	8	4	5	3		6/74	Schmidt et al.	340	172.5	
38		3	8	2	0	1	1	2		6/74	Roth	340	347	
39		3	8	2	4	5	4	3		7/74	Cichetti, Jr.	340	147	
40	<i>✓</i>	3	8	2	7	0	5	2		7/74	Tanaka	343	178	

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	EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
41	<i>Kew</i>	3	8	2	9	6	7	0		8/74	Kebabian	235	152	
42		3	8	3	6	7	2	6		9/74	Wells et al.	179	41	
43		3	8	6	4	5	2	4		2/75	Walker	179	15	
44		3	8	8	9	0	6	3		6/75	Slavin	179	15	
45		3	8	9	1	9	5	9		6/75	Tsuji et al.	340	146.1	
46		3	8	9	4	1	9	4		7/75	Frost	179	41	
47		3	9	2	2	4	9	6		11/75	Gabbard et al.	179	15	
48		3	9	3	2	8	2	1		1/76	McClaskey	331	25	
49		3	9	5	9	5	9	5		5/76	Smith	179	15	
50		3	9	8	2	2	4	1		9/76	Lipcon	340	347	
51		4	0	0	4	2	2	6		1/77	Qureshi et al.	325	42	
52		4	0	0	9	3	4	3		2/77	Markey et al.	179	15	
53		4	0	0	9	3	4	4		2/77	Flemming	179	15	
54		4	0	0	9	3	4	5		2/77	Flemming et al.	179	15	
55		4	0	0	9	3	4	7		2/77	Flemming et al.	179	15	
56		4	0	1	3	8	4	0		3/77	Anderson	179	15	
57		4	0	2	0	3	3	2		4/77	Crochiere et al.	235	152	
58		4	0	2	0	4	6	1		4/77	Adams et al.	340	146.1	
59		4	0	2	1	6	1	6		5/77	Betts	179	15	
60	<i>✓</i>	4	0	2	7	2	4	3		5/77	Stackhouse et al.	325	53	

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	APPLICANT Paneth et al.	
	FILING DATE Not Yet Known	GROUP Not Yet Known 2661

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
61	km	4 0 3 1 3 3 0	6/77	vanLeeuwen	179	41	
62		4 0 4 8 4 4 3	9/77	Crochiere et al.	179	1	
63		4 0 5 1 3 3 2	9/77	Izumi et al.	179	170.2	
64		4 0 5 4 7 5 3	10/77	Kaul et al.	179	15	
65		4 0 5 8 7 1 3	11/77	DiToro	364	724	
66		4 0 6 4 3 7 8	12/77	Kitayama et al.	179	170.2	
67		4 0 7 1 7 1 1	1/78	Beaupre et al.	179	41	
68		4 0 7 9 3 7 1	3/78	Shimamura	340	347	
69		4 0 8 6 5 3 6	4/78	Acker	325	137	
70		4 1 0 0 3 7 7	7/78	Flannagan	179	15	
71		4 1 0 9 1 0 1	8/78	Mitani	178	67	
72		4 1 1 2 3 7 2	9/78	Holmes et al.	325	321	
73		4 1 2 1 1 5 8	10/78	Hanni	325	55	
74		4 1 2 9 7 4 9	12/78	Goldman	179	2	
75		4 1 3 3 9 7 6	1/79	Atal et al.	179	1	
76		4 1 4 3 2 4 6	3/79	Smith	179	15	
77		4 1 7 1 4 6 7	10/79	Evenchik	179	15	
78		4 1 8 4 0 4 9	1/80	Crochiere et al.	179	1	
79		4 1 9 3 0 3 1	3/80	Cooper	455	38	
80	✓	4 2 0 8 6 3 2	6/80	Sheldon et al.	328	117	

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	EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
81	<i>Cur</i>	4	2	1	5	2	4	4		7/80	Gutleber	370	116	
82		4	2	1	6	3	5	4		8/80	Esteban et al.	179	15.55	
83		4	2	2	0	8	1	9		9/80	Atal	179	1	
84		4	2	2	2	1	1	5		9/80	Cooper et al.	375	1	
85		4	2	2	9	8	2	2		10/80	Bench	375	81	
86		4	2	3	6	2	5	4		11/80	Augustin et al.	455	223	
87		4	2	5	1	8	6	5		2/81	Moore et al.	364	200	
88		4	2	5	3	1	8	8		2/81	Gable	375	110	
89		4	2	5	6	9	2	5		3/81	Goode	370	104	
90		4	2	7	2	8	4	5		6/81	Fiumani	375	20	
91		4	3	0	1	5	3	0		11/81	Gutleber	370	18	
92		4	3	0	9	7	6	4		1/82	Acampora	370	83	
93		4	3	2	0	5	1	7		3/82	Godard	375	13	
94		4	3	2	8	5	8	5		5/82	Monsen	375	14	
95		4	3	3	5	4	4	6		6/82	Gandini et al.	364	900	
96		4	3	5	4	0	5	7		10/82	Atal	179	1	
97		4	3	5	5	3	0	4		10/82	Kasuga et al.	340	347	
98		4	3	5	7	7	0	0		11/82	Alvarez, III et al.	370	83	
99		4	3	6	3	0	0	2		12/82	Fuller	331	1	
100	<i>U</i>	4	3	6	5	3	3	8		12/82	McRae et al.	375	12	

EXAMINER <i>Kur</i>	DATE CONSIDERED <i>11/10/01</i>
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	EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
101	<i>Ww</i>	4	3	7	7	8	6	0		3/83	Godbole	370	84	
102		4	3	8	9	7	2	2		6/83	Hofmeister	370	100	
103		4	3	9	7	0	1	9		8/83	Alvarez et al.	370	104	
104		4	3	9	8	0	6	2		8/83	McRae et al.	179	1.5	
105		4	4	1	1	0	0	7		10/83	Rodman et al.	375	107	
106		4	4	1	4	6	6	1		11/83	Karlstrom	370	95	
107		4	4	1	8	4	0	9		11/83	Queen	370	104	
108		4	4	2	5	6	3	9		1/84	Acampora et al.	370	50	
109		4	4	3	0	7	4	3		2/84	Watanabe	375	13	
110		4	4	3	7	0	8	7		3/84	Petr	340	347	
111		4	4	3	7	1	8	3		3/84	Profet	370	110.1	
112		4	4	4	3	6	6	1		4/84	Kubo	179	2	
113		4	4	4	5	2	1	3		4/84	Baugh et al.	370	94	
114		4	4	4	9	2	5	0		5/84	Kurby	455	76	
115		4	4	5	5	6	4	9		6/84	Esteban et al.	370	80	
116		4	4	6	2	1	0	8		7/84	Miller	375	97	
117		4	4	6	6	1	2	9		8/84	Skutta	455	219	
118		4	4	7	0	1	4	1		9/84	Takada	370	104	
119		4	4	7	2	8	3	2		9/84	Atal et al.	381	40	
120	<i>W</i>	4	4	7	6	5	7	5		10/84	Franke et al.	455	76	

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	EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
121	<i>Kw</i>	4	4	7	7	9	1	3		10/84	Koya et al.	375	13	
122		4	4	8	0	3	2	8		10/84	Alaria et al.	370	63	
123		4	4	8	1	6	4	0		11/84	Chow et al.	375	1	
124		4	4	8	8	1	4	4		12/84	Wollman	340	347	
125		4	4	8	9	4	1	3		12/84	Richmond et al.	370	30	
126		4	4	9	5	6	1	9		1/85	Acampora	370	104	
127	<i>John</i>	4	5	0	3	5	1	0		<i>3</i> 5/85	Weaver	364	715	
128		4	5	0	7	7	8	1		3/85	Alvarez, III et al.	370	104	
129		4	5	1	0	5	9	5		4/85	Glance et al.	370	32	
130		4	5	1	9	0	7	3		5/85	Bertocci et al.	370	118	
131		4	5	2	5	8	3	5		6/85	Vance et al.	370	29	
132		4	5	3	1	2	3	5		7/85	Brusen	455	273	
133		4	5	3	8	2	3	4		8/85	Honda et al.	364	513.5	
134		4	5	5	0	4	2	4		10/85	Cheng et al.	381	15	
135		4	5	5	0	4	4	3		10/85	Freeburg	455	33	
136		4	5	6	2	5	7	2		12/85	Goldman et al.	370	80	
137		4	5	6	7	5	9	1		1/86	Gray et al.	370	109	
138		4	5	7	8	8	1	5		3/86	Persinotti	455	15	
139		4	5	8	4	6	9	3		4/86	Levy et al.	375	54	
140	<i>X</i>	4	5	8	7	6	6	2		5/86	Langewellpott	375	1	

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142	✓	4 5 9 7 1 0 5	1/86	Freeburg	455	33	
143		4 5 9 9 4 9 0	7/86	Cornell et al.	455	33	
144		4 6 0 8 7 1 1	8/86	Goldman	455	33	
145		4 6 1 3 9 9 0	9/86	Halpern	455	33	
146		4 6 2 2 6 8 0	11/86	Zinser	375	25	
147		4 6 2 5 3 0 8	11/86	Kim et al.	370	104	
148		4 6 2 8 5 0 6	12/86	Sperlich	370	104	
149		4 6 3 0 2 5 7	12/86	White	370	29	
150		4 6 3 0 3 1 4	12/86	Smith	455	52	
151		4 6 3 7 0 3 6	1/87	Kobari	375	76	
152		4 6 3 8 4 7 9	1/87	Alexis	370	95	
153		4 6 3 9 9 1 4	1/87	Winters	370	110.1	
154		4 6 4 2 8 0 6	2/87	Hewitt et al.	370	95	
155		4 6 4 4 5 3 4	2/87	Sperlich	370	95	
156		4 6 4 4 5 3 5	2/87	Johnson et al.	370	99	
157		4 6 5 6 6 5 3	4/87	Oda et al.	379	61	
158		4 6 7 5 8 6 3	6/87	Paneth et al.	370	50	
159		4 7 0 9 3 9 0	11/87	Atal et al.	381	51	
160	✓	4 7 4 1 0 1 8	4/88	Potratz et al.	379	58	
		4 7 4 2 5 5 0	5/88	Fette	381	36	

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	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
161	<i>Kur</i>	4 7 5 4 4 5 0	6/88	Lynk, Jr., et al.	370	29	
162		4 7 5 5 9 9 4	7/88	Staples et al.	370	118	
163		4 7 7 1 4 2 5	9/88	Baran et al.	370	85	
164		4 7 7 7 6 3 3	10/88	Fletcher et al.	370	50	
165		4 7 8 5 4 5 0	11/88	Bolgiano et al.	370	95	
166		4 7 8 8 6 8 1	11/88	Thomas et al.	370	100	
167		4 7 9 7 9 4 7	1/89	Labedz	455	33	
168		4 8 1 1 4 2 0	3/89	Avis et al.	455	51	
169		4 8 1 7 0 8 9	3/89	Paneth et al.	370	94	
170		4 8 2 5 4 4 8	4/89	Critchlow et al.	375	8	
171		4 8 4 3 6 1 2	6/89	Brusch et al.	375	1	
172		4 8 4 3 6 2 1	6/89	Potratz	379	58	
173		4 8 6 4 5 6 6	9/89	Chauveau	370	109	
174		4 8 8 2 7 7 0	11/89	Miyshira et al.	455	603	
175		4 8 9 3 3 1 7	1/90	Critchlow et al.	375	97	
176		4 9 1 2 7 0 5	3/90	Paneth et al.	370	95.1	
177		4 9 1 8 7 4 6	4/90	Serizawa	455	54	
178		4 9 7 4 0 9 9	11/90	Lin et al.	358	426	
179		5 0 2 2 0 2 4	6/91	Paneth et al.	370	50	
180	<i>W</i>	5 0 5 1 9 9 1	9/91	Szczutkowski	370	108	

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FOREIGN PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
187	<i>Ku</i>	A2 2 5 2 4 8 3	6/84	Australia				
188		B9 1 5 4 5 8 2	7/83	Australia				
189		1 0 3 5 4 7 6	7/78	Canada	H04J	3/02		
190		1 1 7 6 3 3 6	10/84	Canada	340	72		
191		1 2 4 6 1 4 8	12/88	Canada	325	29		
192		2 0 2 0 0 9 4	4/70	Germany				
193		2 3 0 8 7 3 6	08/74	Germany	H04B	7/00		
194		2 4 3 7 1 5 2	8/74	Germany				
195		2 6 5 9 5 9 6	12/77	Germany				
196		2 6 5 9 6 3 5	6/79	Germany	H04	B 7/26		
197		2 3 6 2 8 5 5	6/75	Germany	H03K	13-01		
198		2 7 1 5 3 3 2	10/78	Germany	H04B	1/62		
199		2 8 1 2 0 0 9	9/79	Germany	H04B	7/26		
200		2 8 3 8 7 5 7	3/79	Germany	H04Q	11/04		
201		3 1 1 8 0 1 8	11/82	Germany	H04Q	7/04		
202		3 1 3 0 1 7 6	2/83	Germany	H04B	7/26		
203		3 2 2 4 9 2 2	1/84	Germany	H04J	6/00		
204		3 2 4 5 3 4 4	6/84	Germany	H04L	27/22		
205		3 3 3 2 2 2 0	2/85	Germany	G08C	15/06		
206	<i>V</i>	3 4 1 7 4 0 4	11/84	Germany	H04L	27/00		

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	APPLICANT Paneth et al.	
	FILING DATE Not Yet Known	GROUP <u>2661</u> Not Yet Known

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	EXAMINER INITIAL	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	NO
207	<i>Kur</i>	3	4	4	3	9	7	4		6/86	Germany	H04J	3/00		
208		3	5	2	7	3	3	0		2/87	Germany	2/87			
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210		0	0	1	8	7	0	2		11/80	Europe	H04B	1/10		
211		0	0	3	5	2	3	0		9/81	Europe	H04B	7/15		
212		0	0	3	6	1	4	6		3/81	Europe	H04Q	7/04		
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214		0	0	4	8	8	5	4		4/82	Europe	H04Q	7/04		
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216		0	0	6	6	8	3	9		12/82	Europe	H04B	7/185		
217		0	0	7	7	2	1	6		4/83	Europe	H04B	1/64		
218		0	0	7	3	3	2	3		3/83	Europe	H04L	9/00		
219		0	1	0	0	5	9	3		2/84	Europe	H04L	11/16		
220		0	1	2	0	7	1	8		10/84	Europe	H04Q	7/04		
221		0	1	3	2	4	0	6		7/90	Europe	H04B	7/155		
222		0	1	3	8	3	6	5		4/85	Europe	H04B	7/24		
223		0	1	4	9	1	3	6		7/85	Europe	H04J	3/06		
224		0	1	5	6	7	6	5		2/85	Europe	H04B	7/26		
225		0	1	8	0	2	0	2		5/86	Europe	H04B	7/26		
226	<i>✓</i>	0	0	3	0	5	8	4		6/81	Europe	H04L	27/22		

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227	<u>Kw</u>	0	0	6	1	3	7	7	9/82	Europe	H03D	3/00		
228		0	0	6	4	6	8	6	11/82	Europe	G04Q	7/04		
229		0	0	8	6	4	8	2	8/83	Europe	H04L	27/20		
230		0	0	9	9	7	0	2	2/84	Europe	H04L	27/22		
231		0	1	1	3	6	6	2	7/84	Europe	H04Q	7/04		
232		0	1	2	4	3	1	9	11/84	Europe	H04B	7/26		
233		0	1	6	0	9	9	3	11/86	Europe	H04Q	7/04		
234		0	1	8	9	8	2	2	6/84	Europe	H04B	7/26		
235		0	3	1	2	6	9	0	5/88	Europe	H04B	7/26		
236		0	3	4	7	3	9	6	12/89	Europe	H04Q	7/04		
237		2	1	7	5	8	3	3	10/73	France	H04B	7/18		
238		2	5	3	2	1	3	0	8/84	France	H03H	17/00		
239		2	5	9	9	2	0	2	5/86	France	H04B	3/60		
240		3	4	2	3	6	4	0	6/84	Germany	H04B	7/26		
241		3	4	2	3	7	8	0	6/84	Germany	H04H	3/00		
242		1	0	8	7	1	8	8	10/67	Great Britain	H04B	7/20		
243		1	1	6	0	7	9	4	8/69	Great Britain	H03B	3/08		
244		1	2	9	6	1	8	1	11/72	Great Britain	H04J	3/00		
245		1	3	7	1	1	8	5	10/74	Great Britain	G01D	21/00		
246	<u>✓</u>	1	5	2	6	0	0	5	9/78	Great Britain	H04J	4/00		

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														YES	NO
247	Ku	1	5	6	2	9	6	4		3/80	Great Britain	H04Q	7/04		
248		1	5	8	4	6	2	1		2/81	Great Britain	H04B	1/03		
249		2	0	0	3	3	6	6		3/79	Great Britain	H04B	1/10		
250		2	0	0	4	0	9	8		3/79	Great Britain	G06F	3/00		
251		2	0	5	2	2	1	6		1/81	Great Britain	H04B	1/56		
252		2	0	6	3	0	1	1		5/81	Great Britain	H04Q	7/00		
253		2	0	9	5	5	1	6		9/82	Great Britain	H04J	3/06		
254		2	1	0	7	1	4	3		4/83	Great Britain	H03C	3/08		
255		2	1	2	5	6	5	4		3/84	Great Britain	H64J	13/00		
256		2	1	3	8	6	5	2		10/84	Great Britain	H04Q	11/02		
257		5	2	7	2	5	1	7		6/79	Japan	H04B	7/155		
258		5	4	6	0	8	0	6		5/79	Japan				
259		5	7	6	3	9	4	3		4/82	Japan	H04B	7/26		
260		5	2	7	1	1	0	4		10/75	Japan	H04B	1/40		
261		5	8	7	7	3	4	1		5/83	Japan	H04B	7/15		
262		5	8	8	1	3	4	9		5/83	Japan	H04B	7/24		
263		5	9	5	2	9	9	3		3/84	Japan	H04Q	11/04		
264		5	9	5	8	9	2	7		4/84	Japan	H04B	7/26		
265		5	4	1	0	5	4	42		8/79	Japan	G06F	9/16		
266		5	6	1	7	9	9	70		11/81	Japan				

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														YES	NO
267	1/15	5	7	2	0	2	1	42	12/82		Japan	H04B	7/185		
268		5	7	2	1	0	7	43	12/82		Japan	H04J	3/06		
269		6	0	2	5	0	7	35	12/85		Japan	H04J	3/06		
270		1	9	7	2	4	55	27			Japan				
270		1	9	7	3	9	2	81	12/81		Japan				
271		WO83	0	0	4	1	2		2/83		PCT	H04J	6/00		
272		WO84	0	3	1	8	8		8/84		PCT	H04L	27/14		
273		WO84	0	0	4	5	5		2/84		PCT	H04B	1/56		
274		WO86	0	2	7	2	6		5/86		PCT	G01L	5/00		
275		WO86	0	6	9	1	5		11/86		PCT	H04Q	7/04		
276		1	5	0	6	7	1	0	4/78		United Kingdom	H04B	7/15		
276	q	0	6	3	7	5	1	4	7/83		Sweden	H04Q	5/14		

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	APPLICANT Paneth et al.	
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